

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/97

Date Received: 09/25/97

Project: Metro Self Monitor, PO# M58518

Date Samples Extracted: 10/09/97

Date Extracts Analyzed: 10/09/97

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M58518	0.49	0.68	0.62	0.14
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS FOR
THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 710012-01 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.34	0.35	3	0-20
Copper	mg/L (ppm)	0.40	0.42	5	0-20
Nickel	mg/L (ppm)	0.40	0.45	12	0-20
Zinc	mg/L (ppm)	0.08	0.09	12a	0-20

Laboratory Code: 710012-01 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.34	94	98	80-120	4
Copper	mg/L (ppm)	5	0.40	94	98	80-120	4
Nickel	mg/L (ppm)	10	0.40	95	99	80-120	4
Zinc	mg/L (ppm)	5	0.08	96	101	80-120	5

Laboratory Code: LCS

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	100	103	80-120	3
Copper	mg/L (ppm)	5	102	105	80-120	3
Nickel	mg/L (ppm)	10	101	104	80-120	3
Zinc	mg/L (ppm)	5	102	104	80-120	2

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

PJ # 709130 KJ AI 09.25.97
1:15

1:15

Contact Gerold Thompson

628 Hanson 1150.

Zip Seattle
(200) 382-8779

LWS SF13-1

FAX #

Date 9-25-92

PURCHASE ORDER #

7238

medno Self monitor

nr 585/8

PROJECT LOCATION

5200 6th Ave S

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

[illegible]

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

...ed by:

Gerard A. Thayer

ACW

9/25/57

11007

Tom Russell

Tom Russell

FBI

9.25.95

1: 002m

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

October 10, 1997

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 25, 1997 from your Metro Self Monitor, PO# M58518 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.


Kurt Johnson
Chemist

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Enclosures
ACU1010R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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e-mail: fbi@isomedia.com

October 10, 1997

INVOICE # 97ACU1010-3
DUPLICATE COPY

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M58518: Results of testing requested by
Gerry Thompson for material submitted on September 25, 1997.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID # (b) (6)